Marvair®
AIRXCEL™, Inc.
ISO 9001:2008 REGISTERED COMPANY

ModPac™ II 1 to 5-Ton Vertical Wall Mount Air Conditioners

Models AVPA12-20-24-30-36-42-48-60

General Description

The Marvair® ModPac™ II air conditioner is a vertical, wall mounted, cost effective air conditioner designed specifically for the modular and relocatable building. The unit is manufactured in eight sizes from 1 to 5 tons for a variety of building types and applications. Electric heat may be field or factory installed. Disconnects are standard on all units including the 460v. models. Accessories include a full range of grilles and thermostats. Cabinet color choices include standard Marvair beige and grey as well as other options. A Marvair first, the built-in mounting flanges simplifies installation. The sloped top, another Marvair original, eliminates the need for a rainhood.

Safety Listed & Energy Certified

All ModPac air conditioners are built to UL standard 1995, 2nd edition and CAN/CSA C22, No. 236-5, 2nd edition. For energy efficiency and performance, the units are tested and rated in accordance to the ANSI/ARI (Air-Conditioning and Refrigeration Institute) Standard 390- 2003 (Single Package Vertical Units). All AVPA units meet or exceed the efficiency requirements of ANSI/ASHRAE/IESNA 90.1.2007. The ModPac air conditioners are commercial units and are not intended for use in residential applications.

Standard Features

Ease of Installation
- Factory installed disconnect may eliminate need of outside disconnect.
- Built-in mounting flanges eliminate need for side brackets.
- Sloped top sheds water and minimizes chance of water leaks.
- Designed for installation in a modular builder's facility.

Attractive and Built for Long Term Operation
- Choice of colors - beige, white, grey, light brown.
- Decorative coil guard.
- High efficiency compressors provide reliable and quiet operation.

Ventilation Options
- Manual damper capable of up to 15% of rated air flow of outside air. Field adjustable, no pressure relief. (Standard, "N" Damper - AVPA12-60)
- Motorized, two position damper (open and closed) capable of 0 to 450 cfm of outside air and includes pressure relief. A 24-volt actuator motor controls the damper from an external input such as a time clock, CO2 sensor, energy management system or manual switch. ("B" Damper - AVPA30-60)

R-410A Refrigerant

Standard Features (continued)

Ease of Service

- Service access valves.
- All components accessible for field service.
- Nationwide network of service centers.

Quiet

- Twin blowers sized to accept full duct system.
- High and low refrigerant switches
- High density, foil backed insulation complies with codes that require a cleanable surface for the indoor air path.

M5 Configuration

The M5 configuration of the ModPac II air conditioner features the following as standard.

PC Board

The internal control board in the M5 configuration simplifies wiring, consolidates several of the electrical functions onto one device and improves the reliability of the air conditioner. In addition, the control board has LED's that indicate operational status and fault conditions.

LED Indicator Lights

COLOR	TYPE	STATUS	DESCRIPTION
Green	Power	Constant On	24 VAC power has been applied
Red	Status	Constant On	Normal Operation
		1 Blink	High pressure switch has opened twice
		2 Blinks	Low pressure switch has opened twice
		3 Blinks	Freeze stat (optional) - indoor coil temperature is below 35°F (1°C)

Modes of Operation

Normal Start-up: On a call for cooling, and the with the high pressure switch closed, the cooling system

(compressor, indoor blower motor and outdoor fan motor) will be energized. (Note: See the Delay on Make feature). The cooling system will remain energized during the three minute low pressure switch bypass cycle. If the low pressure is closed, the cooling system will continue to operate after the three-minute bypass. If the low pressure switch is open after the three-minute bypass, the cooling system will be de-energized.

Lockout Mode: If either the high or low pressure switch opens twice on the same call for cooling, the control board enters into the lockout mode. In the lockout mode, the compressor is turned off, the alarm output is energized and the status LED's will blink to indicate which fault has occurred. If there is a call for air flow, the indoor blower will remain energized. When the lockout condition has cleared, the unit will reset if the demand of the thermostat is removed or when power is reset. The lockout circuit is factory wired for normally open contacts. The user can now have normally closed contacts by moving a wire on the control board.

Delay on Make: On initial power up or on resumption of power, the air conditioner will wait .03 to 10 minutes from a call for cooling before allowing the contactor to energize.

In addition to the PC board, the M5 configuration has high and low refrigerant pressure switches and foil backed insulation lines the indoor air path. A low ambient fan cycle control is available as an option.

Accessories

Supply Grilles

For AVPA12	17" x 5"	P/N 80682
For AVPA20,24	20" x 8"	P/N 80674
For AVPA30,36	28" x 8"	P/N 80675
For AVPA42,48,60	30" x 10"	P/N 80676

Return Grilles

For AVPA12	17" x 10"	P/N 92352
For AVPA20,24	20" x 12"	P/N 80677
For AVPA30,36	28" x 14"	P/N 80678
For AVPA42,48,60	30" x 16"	P/N 80679

Return Filter Grilles

Used when filter must be changed from the interior. Also reduces sound level.

For AVPA12	17" x 10"	P/N 80683
For AVPA20,24	20" x 12"	P/N 80671
For AVPA30,36	28" x 14"	P/N 80672
For AVPA42,48,60	30" x 16"	P/N 80673

Thermostats

Thermostat, P/N 50121

Digital thermostat. 1 stage heat, 1 stage cool. Non-programmable. Fan switch: Auto & On. Manual changeover system switch: Cool-Off-Heat. Low temperature protection. °F or °C selectable.

Thermostat, P/N 50123

Digital thermostat. 1 stage heat, 1 stage cool. 7 day programmable. Fan switch: Auto & On. Auto-changeover. Keypad lockout. Non-volatile program memory. Title 24 compliant - no batteries needed.

Thermostat, P/N 50218

Digital, non-programmable thermostat. One stage cool/One stage heat. Manual or auto changeover. Fan mode: Auto or On. Permanent retention of settings upon power loss. Field adjustable temperature calibration. Max heat and minimum cool set points. Adjustable temperature differential. Remote sensor capable. Keypad lock out. Status LED. °F or °C selectable.

Thermostat, P/N 50246

Non-programmable, single stage heat, single stage cool. Manual changeover. Fan: Auto & On. 60 minute power back-up.

Thermostat, P/N 50289

Programmable 2-stage heat, 2-stage cool. System settings: Heat, Cool, Off, Auto-changeover. Fan Auto & ON. 3-hour override and button lockout to prevent tampering.

Thermostat Guard, P/N 50092

For use with 50121, 50123 thermostats.

Choice of Colors

Beige is standard color with grey, white and light brown available.

Outside Air Ventilation Schedule

Designator	Outside Air	Pressure Relief	Damper
N	0 to 15% of Rated Air Flow	No	Manual
B	0 to 450 cfm	Yes	Motorized

Model Identification

AVP — Air Source Vertical Package

A — A = R410 Refrigerant

● — Nominal Cooling
12 = 12,000 BTUH
20 = 20,000 BTUH
24 = 24,000 BTUH
30 = 29,000 BTUH
36 = 35,000 BTUH
42 = 42,000 BTUH
48 = 46,500 BTUH
60 = 56,000 BTUH

AC — System Type: Air Conditioner

● — Power Supply
A = 208/230V,1ø,60Hz
C = 208/230V,3ø,60Hz
D = 460V,3ø,60Hz

● ● ● — Electric Heat – kW

000 = No Heat	080 = 8 kW
036 = 3.6 kW	090 = 9 kW
040 = 4 kW	100 = 10 kW
050 = 5 kW	120 = 12 kW
060 = 6 kW	150 = 15 kW

M5 — Configuration
M5 = PC Board & Square Cornered Cabinet

● — Ventilation Code
N = 0-15% fresh air with manual damper, no pressure relief) All Models
B = Motorized two position damper (open & closed) capable of 0 to 450 cfm (up to 40% of rated air flow) of outside air, includes pressure relief) Models AVPA30-60 only

● — Special Option Code
U = Scroll Compressor
A1 = PC Board

●●● — Color Code
100 = Beige (std)
200 = Grey
300 = Brown
400 = White

Certified Efficiency and Capacity Ratings at ANSI/AHRI Standard 390 - AVPA Air Conditioners

Model Number	AVP12	AVP20	AVPA24			AVPA30			AVPA36			AVPA42			AVPA48			AVPA60		
	ACA	ACA	ACA	ACC	ACD	ACA	ACC	ACD	ACA	ACC	ACD	ACA	ACC	ACD	ACA	ACC	ACD	ACA	ACC	ACD
Cooling BTUH[1]	10,800	19,600	24,000			29,000			35,000			42,000			46,500			54,500		
EER[2]	9.00	9.00	9.25			9.25			9.25			9.25			9.50			9.25		
Rated Air Flow (CFM[3])	400	735	840			1,000			1,220			1,575			1,760			1,850		

[1]Cooling rated at 95°F (35°C) outdoor and 80°F DB/67° WB (26.5°C DB/19.5°C WB) return air.
[2]EER=Energy Efficiency Ratio [3]CFM=Cubic Feet per Minute
Ratings are with no outside air. Performance will be affected by altitude.
Ratings are at 230 volts for 208/230 volt units ("A" & "C" models) and 460 volts for "D" models. Operation of units at a different voltage from that of the rating point will affect performance and air flow.

Sensible Total Heat Ratio @ 95ºF (35ºC) Outside Air Dry Bulb - AVPA Air Conditioners

Model Number	AVPA12	AVPA20	AVPA24			AVPA30			AVPA36			AVPA42			AVPA48			AVPA60		
	ACA	ACA	ACA	ACC	ACD	ACA	ACC	ACD	ACA	ACC	ACD	ACA	ACC	ACD	ACA	ACC	ACD	ACA	ACC	ACD
Total Capacity	10,800	19,600	24,000			29,000			35,000			42,000			46,500			54,500		
Sensible Heat Ratio	0.74	0.76	0.71			0.75			0.69			0.75			0.76			0.72		
Sensible Capacity	7,982	14,837	16,950			21,740			24,155			31,640			35,125			39,000		
Rated Air Flow (CFM[1])	400	735	840			1,000			1,220			1,575			1,760			1,850		

[1]CFM=Cubic Feet per Minute. Sensible heat ratios based upon ANSI/AHRI std. 390 outdoor air conditions of 95°F (35°C) and 80°F DB/67° WB (26.5°C DB/19.5°C WB) return air.

Cooling Performance (BTUH) at Various Outdoor Temperatures - AVPA Air Conditioners

Model Number	Outdoor Temperature								
	75ºF / 24ºC	80ºF / 26.5ºC	85ºF / 29ºC	90ºF / 32ºC	95ºF / 35ºC	100ºF / 38ºC	105ºF / 40.5ºC	110ºF / 43.3ºC	115ºF / 46ºC
AVPA12AC	12,530	12,100	11,660	11,230	10,800	10,370	9,940	9,500	9,290
AVPA20AC	22,740	21,950	21,170	20,380	19,600	18,820	18,030	17,250	16,860
AVPA24AC	27,840	26,880	25,920	24,960	24,000	23,040	22,080	21,120	20,640
AVPA30AC	33,640	32,480	31,320	30,160	29,000	27,840	26,680	25,520	24,940
AVPA36AC	40,600	39,200	37,800	36,400	35,000	33,600	32,200	30,800	30,100
AVPA42AC	48,720	47,040	45,360	43,680	42,000	40,320	38,640	36,960	36,120
AVPA48AC	53,940	52,080	50,220	48,360	46,500	44,640	42,780	40,920	39,900
AVPA60AC	63,220	61,040	58,860	56,680	54,500	52,320	50,140	47,960	46,870

Based upon ANSI/AHRI std. 390 return air conditions of 80°F DB/67° WB (26.5°C DB/19.5°C WB) at various outdoor temperatures.

Electrical Characteristics - Compressor, Fan & Blower Motors - AVPA Air Conditioner

BASIC MODEL	COMPRESSOR				OUTDOOR FAN MOTOR				INDOOR FAN MOTOR			
	Type	VOLTS-HZ-PH	RLA[1]	LRA[2]	VOLTS-HZ-PH	RPM[3]	FLA[4]	HP[5]	VOLTS-HZ-PH	RPM[3]	FLA[4]	HP[5]
AVPA12ACA	ROTARY	208/230-60-1	4.7	25.0	208/230-60-1	1630	0.65	1/6	208/230-60-1	1650	0.85	1/5
AVPA20ACA	RECIPROCATING	208/230-60-1	8.3	43.0	208/230-60-1	1075	1.5	1/5	208/230-60-1	1075	1.5	1/5
AVPA24ACA		208/230-60-1	12.8	54.0	208/230-60-1	1075	1.5	1/5	208/230-60-1	1075	1.5	1/5
AVPA30ACA		208/230-60-1	14.1	74.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPA36ACA		208/230-60-1	17.9	84.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPA42ACA		208/230-60-1	19.8	84.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPA48ACA		208/230-60-1	21.8	102.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPA60ACA		208/230-60-1	26.2	130.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	5.2	3/4
AVPA24ACA	SCROLL	208/230-60-1	12.8	64.0	208/230-60-1	1075	1.5	1/5	208/230-60-1	1075	1.5	1/5
AVPA30ACA		208/230-60-1	14.1	77.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPA36ACA		208/230-60-1	17.9	112.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPA42ACA		208/230-60-1	19.8	109.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPA48ACA		208/230-60-1	21.8	117.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPA60ACA		208/230-60-1	26.2	134.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	5.2	3/4
AVPA24ACC	SCROLL	208/230-60-3	8.3	61.0	208/230-60-1	1075	1.5	1/5	208/230-60-1	1075	1.5	1/5
AVPA30ACC		208/230-60-3	9.0	71.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPA36ACC		208/230-60-3	13.2	88.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPA42ACC		208/230-60-3	13.6	83.1	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPA48ACC		208/230-60-3	13.7	83.1	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPA60ACC		208/230-60-3	15.6	111.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	5.2	3/4
AVPA24ACD	SCROLL	460-60-3	5.1	28.0	208/230-60-1	1075	1.5	1/5	208/230-60-1	1075	1.5	1/5
AVPA30ACD		460-60-3	5.6	38.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPA36ACD		460-60-3	6.0	44.0	208/230-60-1	1075	1.8	1/4	208/230-60-1	1075	2.5	1/4
AVPA42ACD		460-60-3	6.1	41.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPA48ACD		460-60-3	6.2	41.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	3.1	1/2
AVPA60ACD		460-60-3	7.7	52.0	208/230-60-1	825	2.8	1/3	208/230-60-1	1075	5.2	3/4

[1]RLA = Rated Load Amps [2]LRA = Locked Rotor Amps [3]RPM = Revolutions per Minute [4]FLA = Full Load Amps [5]HP = Horsepower
The 460 volt units will have a step down transformer for the 230 volt motors.

Summary Electrical Ratings (Wire Sizing) - AVPA Air Conditioners Manual Ventilation Damper ("N") or Motorized Ventilation Damper ("B")

ELECTRIC HEAT		000 = None		036 = 3.6 kw		040 = 4 kw		050 = 5 kw		060 = 6 kw		080 = 8 kw		090 = 9 kw		100 = 10 kw		120 = 12 kw				150 = 15 kw			
BASIC MODEL	VOLTAGE PHASE / HZ	CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #1		CKT #2		CKT #1		CKT #2	
		MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]
AVPA12ACA	208/230-1-60	7.4	15	19.6	20			26.9	30																
AVPA20ACA	208/230-1-60	13.4	25			22.4	25	27.5	30	32.8	35	43.1	45			53.6	60								
AVPA24ACA	208/230-1-60	19.0	30			22.4	30	27.5	30	32.8	35	43.1	45			53.6	60								
AVPA30ACA	208/230-1-60	21.9	35			23.4	35	28.5	35	33.8	35	44.1	45			54.6	60	23.4	35	41.6	45	28.5	35	52.1	60
AVPA36ACA	208/230-1-60	26.7	40			26.7	40	28.5	40	33.8	40	44.1	45			54.6	60	26.7	40	41.6	45	28.5	40	52.1	60
AVPA42ACA	208/230-1-60	30.7	50					30.7	50							55.2	60	30.7	50	41.6	45	30.7	50	52.1	60
AVPA48ACA	208/230-1-60	33.2	50					33.2	50							55.2	60	33.2	50	41.6	45	33.2	50	52.1	60
AVPA60ACA	208/230-1-60	40.8	60					40.8	60							57.3	60	40.8	60	41.6	45	40.8	60	52.1	60
AVPA24ACC	208/230-3-60	13.4	20							19.5	20			28.6	30			37.6	40						
AVPA30ACC	208/230-3-60	15.6	20							20.5	25			29.6	30			38.6	40			47.6	50		
AVPA36ACC	208/230-3-60	20.8	30							20.8	30			29.6	30			38.6	40			47.6	50		
AVPA42ACC	208/230-3-60	22.9	35							22.9	35			30.2	35			39.2	40			48.2	50		
AVPA48ACC	208/230-3-60	23.0	35							23.0	35			30.2	35			39.2	40			48.2	50		
AVPA60ACC	208/230-3-60	27.5	40							27.5	40			32.3	40			41.3	45			50.3	60		
AVPA24ACD	460-3-60	7.9	15							9.8	15			14.3	15			18.8	20			23.3	25		
AVPA30ACD	460-3-60	9.2	15							10.3	15			14.8	15			19.3	20			23.8	25		
AVPA36ACD	460-3-60	9.7	15							10.3	15			14.8	15			19.3	20			23.8	25		
AVPA42ACD	460-3-60	10.6	15							10.6	15			15.1	20			19.6	20			24.1	25		
AVPA48ACD	460-3-60	10.7	15							10.6	15			15.1	20			19.6	20			24.1	25		
AVPA60ACD	460-3-60	13.6	20							13.6	20			16.1	20			20.6	25			25.1	30		

[1]MCA = Minimum Circuit Ampacity (Wiring Size Amps) [2]MFS = Maximum Fuse Size or HACR Breaker
This chart should only be used as a guideline for estimating conductor size and overcurrent protection. Always refer to the data label on the unit for the requirements of the specific unit. MCA & MFS are calculated at 230v. for the 208-230v units (A & C models) and at 460 volt for the 460v. units (D models).
The 460 v. units (D models) have a step down transformer for the 230v. motors.

Unit Load Amps - AVPA Air Conditioner

BASIC MODEL NUMBER	VOLTAGE PHASE / HZ	CURRENT AMPS		LOAD OF RESISTIVE HEATING ELEMENTS ONLY (AMPS)									TOTAL MAXIMUM HEATING AMPS (STANDARD UNIT)								
		AC[1]	IBM[2]	3.6 kW	04 kW	05 kW	06 kW	08 kW	09 kW	10 kW	12 kW	15 kW	3.6 Kw	04 Kw	05 Kw	06 Kw	08 Kw	09 Kw	10 Kw	12 Kw	15 Kw
AVPA12ACA	208/230-1-60	6.1	0.85	15.0		20.8							15.9		21.7						
AVPA20ACA	208/230-1-60	11.3	1.5		16.7	20.8	25.0	33.3		41.7				18.2	22.3	26.5	34.8		43.2		
AVPA24ACA	208/230-1-60	15.8	1.5		16.7	20.8	25.0	33.3		41.7				18.2	22.3	26.5	34.8		43.2		
AVPA30ACA	208/230-1-60	18.4	2.5		16.7	20.8	25.0	33.3		41.7	50.0	62.5		19.2	23.3	27.5	35.8		44.2	52.5	65.0
AVPA36ACA	208/230-1-60	22.2	2.5		16.7	20.8	25.0	33.3		41.7	50.0	62.5		19.2	23.3	27.5	35.8		44.2	52.5	65.0
AVPA42ACA	208/230-1-60	25.7	3.1			20.8				41.7	50.0	62.5			23.9				44.8	53.1	65.6
AVPA48ACA	208/230-1-60	27.7	3.1			20.8				41.7	50.0	62.5			23.9				44.8	53.1	65.6
AVPA60ACA	208/230-1-60	34.2	5.2			20.8				41.7	50.0	62.5			26.0				46.9	55.2	67.7
AVPA24ACC	208/230-3-60	11.2	1.5				14.4		21.7		28.9	36.1				15.9		23.2		30.4	37.6
AVPA30ACC	208/230-3-60	13.3	2.5				14.4		21.7		28.9	36.1				16.9		24.2		31.4	38.6
AVPA36ACC	208/230-3-60	17.5	2.5				14.4		21.7		28.9	36.1				16.9		24.2		31.4	38.6
AVPA42ACC	208/230-3-60	19.5	3.1				14.4		21.7		28.9	36.1				17.5		24.8		32.0	39.2
AVPA48ACC	208/230-3-60	19.6	3.1				14.4		21.7		28.9	36.1				17.5		24.8		32.0	39.2
AVPA60ACC	208/230-3-60	23.6	5.2				14.4		21.7		28.9	36.1				19.6		26.9		34.1	41.3
AVPA24ACD	460-3-60	6.6	0.8				7.2		10.8		14.4	18.0				8.0		11.6		15.2	18.8
AVPA30ACD	460-3-60	7.8	1.3				7.2		10.8		14.4	18.0				8.5		12.1		15.7	19.3
AVPA36ACD	460-3-60	8.2	1.3				7.2		10.8		14.4	18.0				8.5		12.1		15.7	19.3
AVPA42ACD	460-3-60	9.1	1.6				7.2		10.8		14.4	18.0				8.8		12.4		16.0	19.6
AVPA48ACD	460-3-60	9.2	1.6				7.2		10.8		14.4	18.0				8.8		12.4		16.0	19.6
AVPA60ACD	460-3-60	11.7	2.6				7.2		10.8		14.4	18.0				9.8		13.4		17.0	20.6

[1]AC = Air Conditioner [2]IBM = Indoor Blower Motor

Heating kW rated at 240v. for 208-230v. units (A & C models). Derate heat by 25% for operation on 208v. Heating kW rated at 480v. for 460v. units (D models). Total heating amps for all 1ø units with 15 kW of heat includes both circuits (#1 & #2). Note: 3ø units contain 1ø motor loads. Values shown are maximum phase loads. Loads are not equally balanced on each phase. Total maximum heating and cooling amps include motor loads.

CFM[1] vs. External Static Pressure (Wet Coil)

MODEL	0.10	0.20	0.25	0.3	0.4	0.5
AVPA12	500	460	430	400	n/a	n/a
AVPA20	860	810	740	670	n/a	n/a
AVPA24	860	810	740	670	n/a	n/a
AVPA30	1,100	1,000	960	920	810	n/a
AVPA36	1,310	1,220	1,185	1,150	1,060	n/a
AVPA42	n/a	1,650	1,585	1,520	1,450	1,360
AVPA48	n/a	1,900	1,830	1,760	1,700	1,620
AVPA60	n/a	1,900	1,830	1,760	1,700	1,620

[1]CFM=Cubic Feet per Minute. Air flow ratings are at 230 volts. Operation of units at a different voltage will affect air flow.

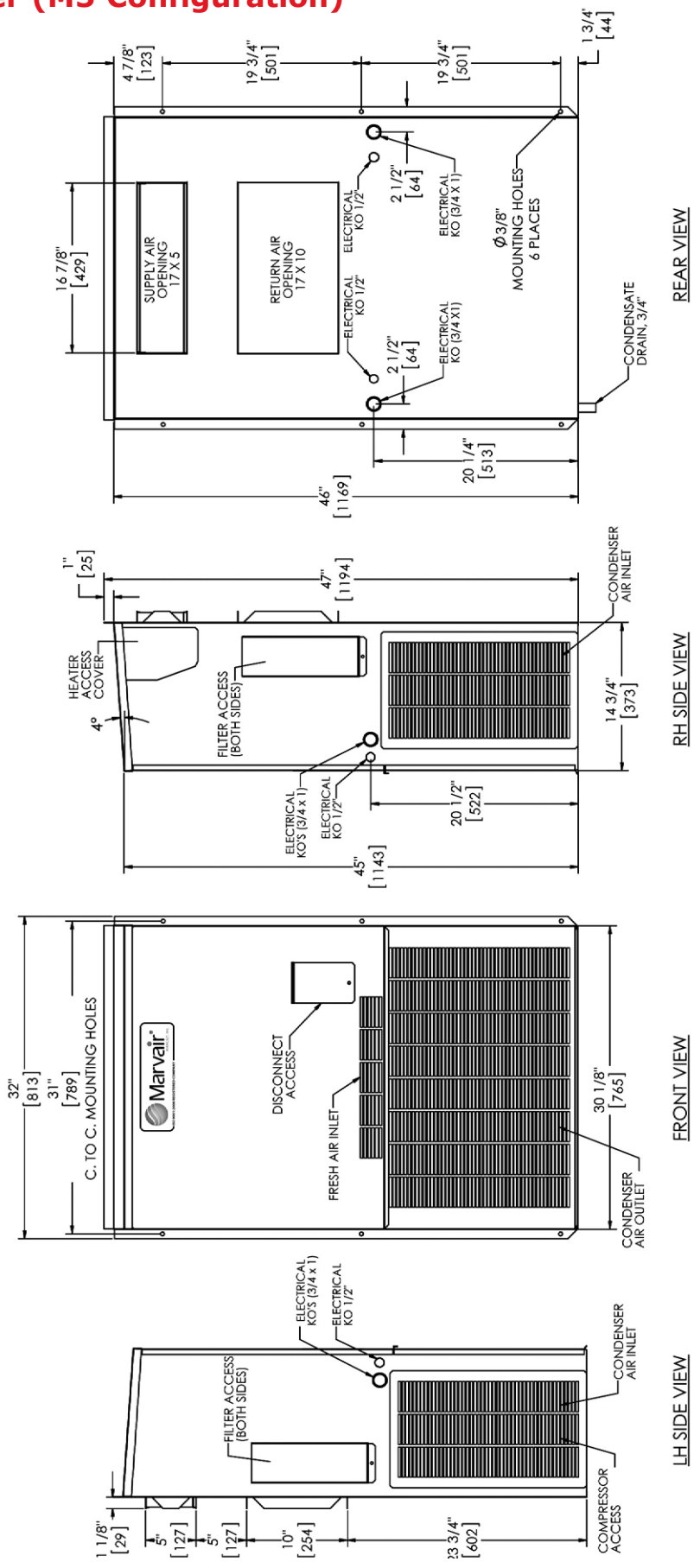
Filter Size

MODEL	AVPA12	AVPA20/24	AVPA30/36	AVPA42/48/60
FILTER SIZE (inches)	20 x 10 x 1	25 x 16 x 1	30 x 16 x 1	36-1/2 x 22 x 1
FILTER PART NUMBER	91913	80135	80136	80139

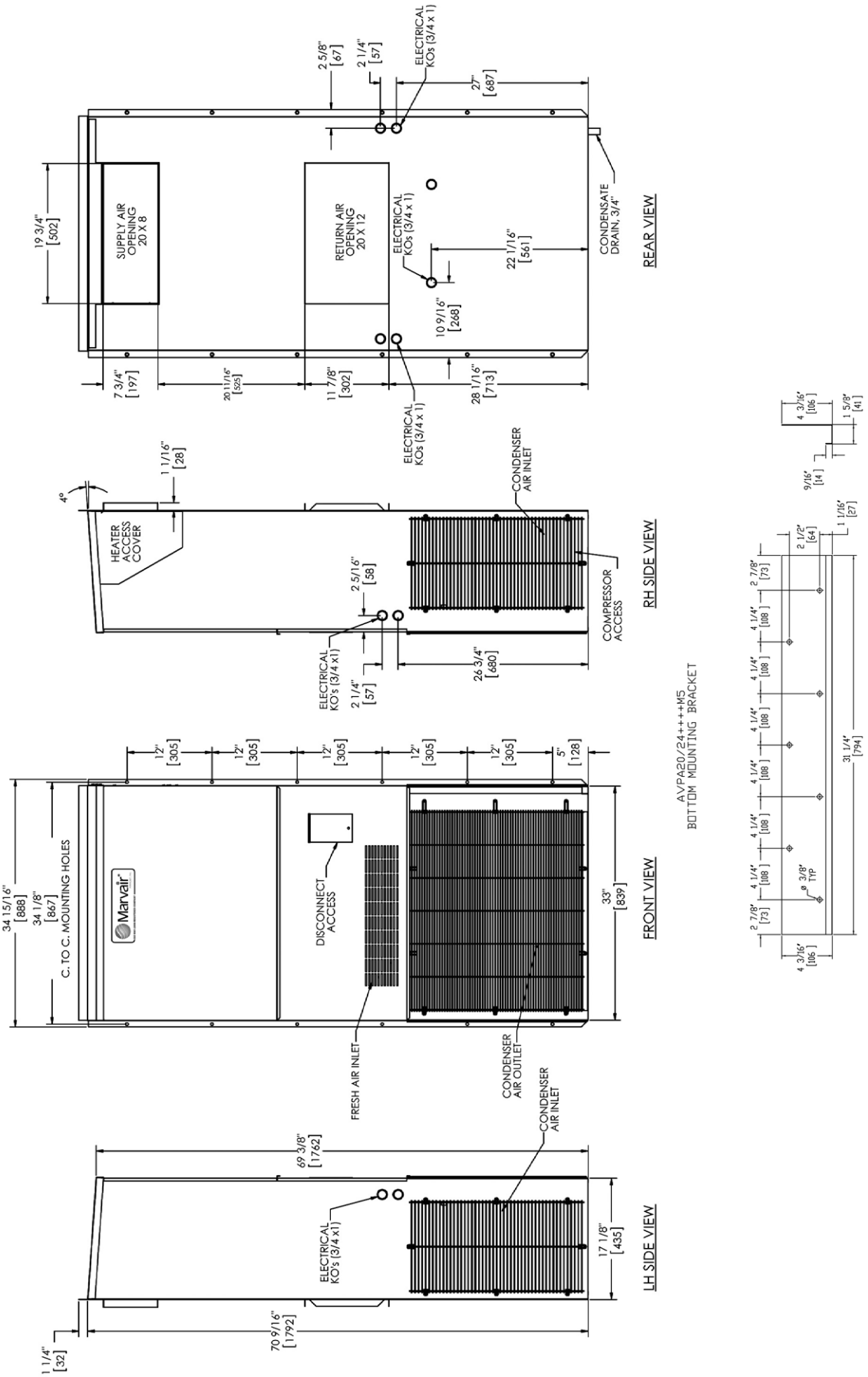
Ship Weights

Ventilation configuration	AVPA12		AVPA20-24		AVPA30-36		AVPA42		AVPA48		AVPA60	
	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs	Kg
Ventilation configuration “N”	180	81.8	280	127.27	350	159.09	485	220.45	510	231.82	522	237.27
Ventilation configuration “B”	N/A	N/A	N/A	N/A	365	165.91	527	239.55	552	250.91	565	256.82

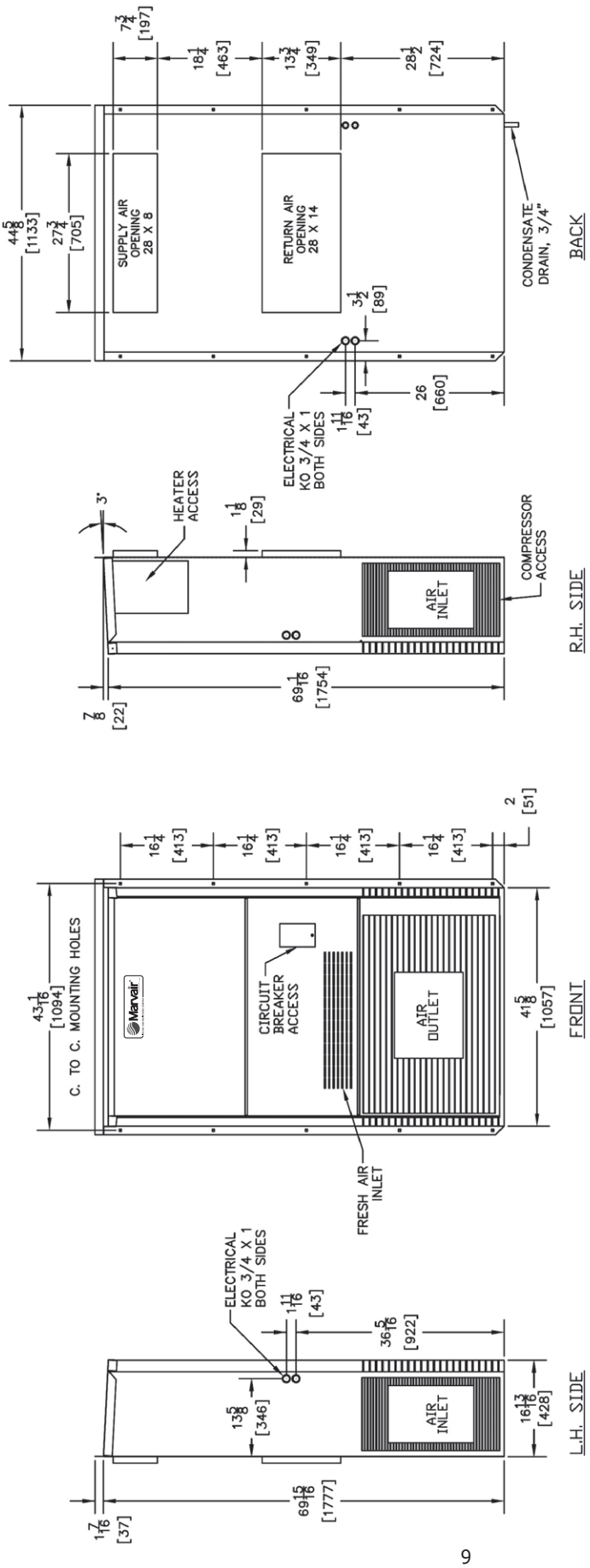
Dimensional Data – AVPA12 ModPac™ II Air Conditioner (M5 Configuration)

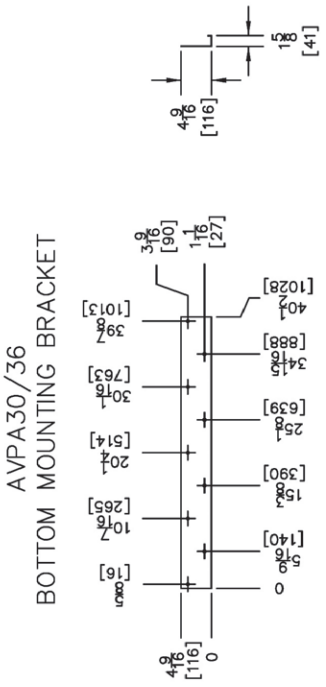


Dimensional Data – AVPA20-24 ModPac™ II Air Conditioner (M5 Configuration)

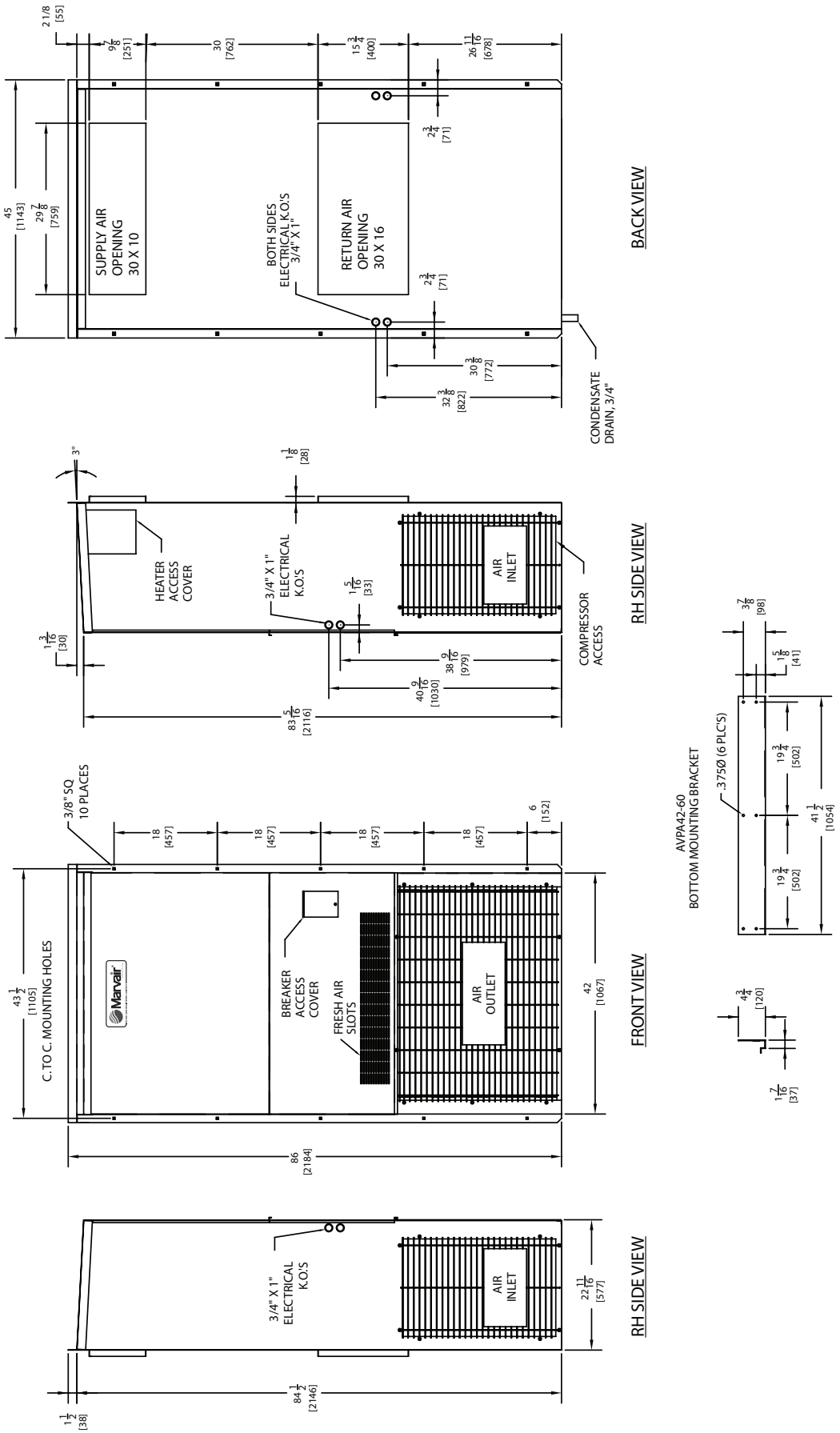


Dimensional Data – AVPA30-36 ModPac™ II Air Conditioner





Dimensional Data – AVPA42-60 ModPac™ II Air Conditioner



Notes

Notes

Please consult the Marvair® website at www.marvair.com for the latest product literature. Detailed dimensional data is available upon request. A complete warranty statement can be found in each product's Installation/Operation Manual, on our website or by contacting Marvair at 229-273-3636. As part of the Marvair continuous improvement program, specifications are subject to change without notice.

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